

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.
10274-1-1SERIAL NO.
07/317,107

APPLICANT

Thomas G. Zimmerman

FILING DATE
2/28/89GROUP
266

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
APD AA	4,074,444	02/21/88	Laenger, Charles J.			
APD AB	4,715,235	12/29/87	Fukui et al.			
II AC	4,665,388	05/12/87	Ivie et al.			
II AD	4,660,033	04/21/87	Brandt, Gordon			
II AE	4,654,520	03/31/87	Griffiths, Richard			
II AF	4,586,335	05/06/86	Hosoda et al.			
II AG	4,634,856	01/06/87	Kirkham, Randy			
II AH	4,613,139	09/23/86	Robinson, II, William			
II AI	4,586,387	05/06/86	Morgan et al.			
II AJ	4,581,491	04/08/86	Boothroyd, Arthur			
II AK	4,579,006	04/01/86	Hosoda, Yuji			
II AL	4,558,704	12/17/85	Petrofsky, Jerrold			
II AM	4,553,393	11/19/85	Ruoff, Carl F.			
II AN	4,544,988	10/01/85	Hochstein, Peter			
II AO	4,542,291	09/17/85	Zimmerman, Thomas			
APD AP	4,540,176	09/10/85	Baer, Ralph			
AQ	4,524,340	06/18/85	Lefkowitz, Leonard R.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO
SLX APD AR	SU 1,225,525	04/23/86	Russia				
DEX APD AS	DE 3334395	04/11/85	Germany				
DEX APD	DE 3,442,549	11/22/84	Germany				

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

APD AT "One-Point Touch Input of Vector Information for Computer Displays" C. Herot and G. Weinzapfel, Computer Graphics, Vol. 12, No. 3, August 1978.

APD AU "Digital Actuator Utilizing Shape Memory Effect", Honma, et al. lecture given at 30th Anniversary of TOKAI Branch foundation on Jul 14, 1981.

EXAMINER

ALVIN OBERLEY
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APD BA	4,414,984	11/15/83	Zarudiansky, Alain			
BB	4,414,537	11/08/83	Crimes, Gary			
APD BC	4,408,495	10/11/83	Robert Couch, et al.			
BD	4,355,805	10/26/82	Baer, et al.			
APD BE	4,302,138	11/24/81	Zarudiansky, Alain			
BF	4,209,255	06/24/80	Heynau, Hans A.			
APD BG	4,059,830	11/22/77	Threadgill, Murray			
APD BH	3,777,086	12/04/73	Riedo, Otto			
BI	3,510,210	05/05/70	Haney, Von			
APD BJ	2,356,267	08/22/44	Pelunis, R.J.			
APD BK	1,335,272	03/30/20	Broughton, Douglas J.			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO
BL						
BM						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

APD BN "Micro Manipulators Applied Shape Memory Effect", Honma et al., paper presented at 1982 Precision Machinery Assoc. Autumn Conference on October 20. (Also in Japanese)

APD BO "Magnetoelastic Force Feedback Sensors for Robots and Machine Tools" John M. Vranish, National Bureau of Standards, Code 738.03.

APD BP "Analysis of Muscle Open and Closed Loop Recruitment Forces: Preview to Synthetic Proprioception", Solomonow, et al., IEE Frontier of Engineering and Computing in Health Care, 1984.

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
CA						
CB						
CC						
CD						

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO
CE						
CF						
CG						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

ABD CH "Shape Memory Effect Alloys for Robotic Devices", Schetky, L. Robotics Age, July, 1984, pp. 13-17. 14

ABD CJ "Laboratory Profile", R & D Frontiers

ABD CK "Hitachi's Robot Hand", Robotics Age, July, 1984

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